



## Business Opportunity

*Portuguese Creek Partnership* recently completed the pilot stage of its environmentally friendly mining project in Gooding, Idaho. As a result, the Partnership has developed a ready-for-production, domestic (US) supply of platinum group metals for a growing global demand driven by the clean energy and environmental technology industries<sup>i</sup>. Its production of platinum and other metals will be derived from 50 million tons of ore reserve<sup>ii</sup> that has been delineated on 3 of the 70 claims<sup>iii</sup> in a larger holding of over two square miles<sup>iv</sup> of 70 mining claims the Partnership leases<sup>v</sup> on US Bureau of Land Management (BLM) lands in Idaho.

Based on a customized assaying<sup>vi</sup> of core hole composite samples<sup>vii</sup> and pilot testing the halide leach process<sup>viii</sup> on the Partnership ore, the discounted value of all metals (platinum, gold, rhodium, palladium) in this proven reserve on just 10 of the 70 claims is over 46 billion dollars<sup>ix</sup>. The Partnership claims also contain significant rare earth elements including cerium, lanthanum, niobium, rubidium and yttrium<sup>x</sup>.

*Portuguese Creek Partnership* seeks financing to expand its existing facility<sup>xi</sup> and to move into full production<sup>xii</sup>. The existing plant and facility is permitted<sup>xiii</sup> by the State and Local regulatory bodies and can be expanded to accommodate a full production process facility with additional investment. An immediate use of funds<sup>xiv</sup> will be to process the 2,600 tons of ore<sup>xv</sup> already moved from the mine to the facility and to start permitting the 50 million ton reserve for future production. To receive full permitting requirements for up to a 10,000 ton per day facility, the partnership will first apply for the Environmental Assessment, (EA), to be completed by an outside engineering firm. Concurrent to the EA, the Partnership will file a Plan of Operations, outlining the methods to be used and the type of mining that will be done at the site. All filings will be to the Bureau of Land Management.



Figure 1 - 2,600-Ton Ore Pile in Facility Yard



Figure 2 - Existing Facility in Gooding, Idaho

## Unique Process

Mineralization Analyses	Platinum	Gold
Values for Plan (oz./ton)* Recoveries Discounted @ 50%	2.75	3.25
Ore Currently in Yard (tons)	2,600	2600
Commodity Estimates (\$/oz.) 3 year average price per metal	\$1,435	\$1,250
Immediate Revenue in Yard	\$10,260,250	\$10,562,500
<b>TOTAL Immediate Revenue</b>	<b>\$20,822,750</b>	
Full Production Capacity (annual tons of ore)	2,714,250	
Full Production Capacity (annual ounces of commodity)	865,846 ounces @ (92% discount)	1,148,128 ounces @ (92% discount)
Full Production Capacity (annual revenue)	\$1,242,488,651	\$1,291,643,719
<b>TOTAL Future Annual Revenue</b>	<b>\$2,534,132,370 *</b>	
Estimated Reserve in Drilling Grid (tons of ore)	50,000,000	
Estimated Mine Life (years)	18.42	
Discount Rate	0%	
<b>TOTAL Reserve Value Estimate (discounted)</b>	<b>\$46,682,000,000</b>	

The operator and majority limited partner of the *Portuguese Creek Partnership*, Resources Opportunity Corporation International (ROCI), has developed an eco-friendly, non-cyanide, “halide leach” process<sup>xvi</sup>, specifically designed for the Portuguese Creek Mine ore. This methodology primarily uses brines, or salts to make the metals soluble during leaching. Once leached, the metals are collected onto precious metal-specific collection mediums (known as ion exchange resins<sup>xvii</sup>) and are made by Dow<sup>xviii</sup>, Sybron and others). The leach process is a closed loop recycled system, eliminating excess water use and excess reagent costs.

## 2,600 Tons in the Yard+

<b>Gross Revenues</b>	<b>\$20,822,750</b>	<b>100%</b>
<b>Operating Cost</b>	<b>(1,940,400.)</b>	<b>13.7%</b>
<b>Gross Margin</b>	<b>\$18,882,350</b>	<b>86.3</b>
<b>Refining Charges</b>	<b>(2,082,275)</b>	<b>13.33%</b>
<b>Operator Fees</b>	<b>(2,832,352)</b>	<b>19.99%</b>
<b>EBITDA</b>	<b>\$12,237,375</b>	<b>84.6%</b>
<b>ROCI Royalty 1.5% EBITDA</b>	<b>(183,561)</b>	<b>1.5%</b>
<b>Partnership Gross Return</b>	<b>\$12,053,814</b>	
<b>DEBT REPAYMENT</b>	<b>\$10,000,000</b>	
<b>Partnership Nets</b>	<b>\$2,053,814</b>	

<b>Full Production Revenue Pro-Forma</b>		
<b>Revenue Pro-Pro-Forma</b>		
<b>Portuguese Creek Partners, LLLP</b>		
<b>Revenue Projections At Full Production @ 8,225 tons per day</b>		
<b>Gross Revenues: (Discounted)</b>	<b>\$2,534,132,370</b>	<b>100.00%</b>
<b>Cost of Operations:</b>		
Cost to Mine / Blasting, hauling, crushing grinding leaching	(67,856,250)	2.68%
General and Administrative / Salaries, office expense	(27,142,500)	1.07%
Stripping Costs	(5,428,500)	0.21%
<b>Total Cost of Goods Sold:</b>	<b>(\$100,427,250)</b>	<b>3.96%</b>
<b>Gross Margin:</b>	<b>\$2,433,705,120</b>	<b>96%</b>
Management / Operator Fee	(\$365,055,768)	14.41%
Refining Costs	(253,413,237)	10.00%
Royalty Fee / ROCI	(\$27,228,542)	1.5%
<b>Cost of Goods sold &amp; Fees</b>	<b>(\$746,124,797)</b>	<b>29.44%</b>
<b>PARTNERSHIP PRE-TAX EARNINGS (Discounted)</b>	<b>\$1,788,007,573</b>	<b>71%</b>

## The Project

### Metal Production

Once the platinum, gold, rhodium and palladium are collected onto the resins, each metal needs to be refined to an upgraded product. This can be done at the mine site, off-site in a separate facility, or outsourced to precious metal refiners, of which there are several in the US, Canada, Mexico, Europe and Asia. The metals can then be readily sold into any of the commodity trading markets in the US, London, and Asia. Industrial buyers can also purchase directly through long-term off-take contracts.

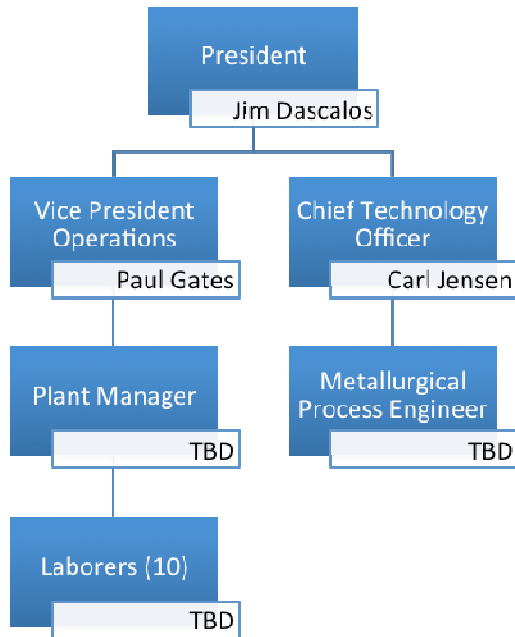
### Partnership

The Partnership was formed in late 2001 by the geochemist that found the property, (the late), Dr. Michael B. Mehrrens<sup>xi</sup> and ROCI as equal Limited Partners. ROCI provided metallurgical work through its labs, and Dr. Mehrrens provided the geochemical understanding of the mineralization. The Partners completed two different private placement fundraisings, each after key determinations during its pre-feasibility studies. The total raised from private placement funding including loans from partners and assets purchased is approximately \$2,250,000. The Managing Partners have continued supporting the effort by providing and utilizing Line of Credit funds during pilot testing in the amount of \$150,000 and have secured loans used to purchase the land (9 acres), and facilities (12,000 sq. ft), used for pilot testing in the amount of \$202,000. The Partnership has eight Limited Partners, representing 97% of the Limited Partnership Interest. The other 3% is a non-dilutable interest held by the General Partner, Portuguese Creek Management LLC.



### Management

Portuguese Creek Management LLC, a Colorado Limited Liability company, is responsible for all aspects of management of the Partnership. It currently has three managers<sup>xx</sup>: James Dascalos, Alex Duncan and Whit Allen. Paul Gates<sup>xxi</sup> is ROCI's Chief Operation Officer, and both Yani Roditis and Dr. John Trefny serve on the Board of Advisors<sup>xxii</sup>. The Management of the Partnership has also utilized professional industry consultants throughout the project, and their respective reports and Curriculum Vitae are available below<sup>xxiii</sup>.



## Management Plan

**President:** *James Dascalos*

Mr. Dascalos will oversee all aspect of operations, including budgeting, payroll, timeline, permitting, financial and employee issues. Mr. Dascalos has operated the mine development for the Portuguese Creek Partnership since its inception in 2001, through both lab and pilot testing. Salaried Position - \$185,000- \$225,000 plus benefit package.

**VP Operations:** *Paul Gates / Mine Engineer*

Mr. Gates is our first choice for plant and related operations as he headed up both pilot studies previously. He has indicated that he is willing to do the same contingent on meeting salary requirements. Position will report to the President. Salaried Position - \$160,000 to \$220,000 plus benefits package.

**Chief Technology Officer:** *Carl Jensen / Metallurgist / Chemist*

Mr. Jensen is our fist choice for heading up the flow-sheet design and process development as Mr. Jensen was instrumental in all aspects of the previous test work as through lab scale testing and pilot testing. Position will report to the President. Salaried Position - \$160,000 to \$200,000 plus benefits package.

**Metallurgical Process Engineer:** *To be Hired*

This position will be a back up to Mr. Jensen and will be a key position in being able to assist Mr. Jensen through design and related development. Position will report to the President and Chief Technology Officer. Salaried Position - \$125,000 - \$175,000 per year first year plus small benefits package

**Plant Manager:** *To be Hired*

This position will be filled by recruiting someone familiar with plant management and quality controls. Position will report to Vice President of Operations. Salaried Position - \$80,000 - 125,000 per first year, plus small benefits package.

**General Hires:** *Hourly and Salaried Positions to be filed*

ROCI, plans to hire from the general employment pool up to 50 -100 individuals as unskilled labor. Labor rates will range from \$14 per hour to \$35 per hour.

## History

### Exploration History

In 1999 Dr. Michael B. Mehrtens made an aerial photo study and geologic interpretation of the entire region of the Magic Reservoir Eruptive Center located in south-central Idaho, approximately 35 miles north of Twin Falls. The study revealed the Portuguese Creek area to be distinguished by the presence of volcanic vent structures similar to those in Blackhawk, Idaho. On the basis of the known mineralization at Blackhawk, Dr. Mehrtens suggested that the Portuguese Creek area may have similar mineral potential<sup>xxiv</sup>.

### Pre-Feasibility and Mining Claims

In October of 2001, Resources Opportunity Corporation International (ROCI) and Dr. Michael B. Mehrtens embarked on a precious metals exploration project to determine the pre-feasibility of a precious metals mineral occurrence in South Central Idaho. The Partnership initially staked ten mining claims with BLM in an area with known potential for mineral occurrences. Forty-four (44) surface samples were taken throughout the mining claims. The data from the initial surface sample assay tests<sup>xxv</sup>, using ROCI's proprietary methods, concluded that sufficient gold and platinum group metals were present, warranting further study. Based on these positive first laboratory results on the ten mining claims, the Partnership secured an additional 119 BLM mining claims, but subsequently reduced the total number of mining claims to 70<sup>iv</sup>. The General Partner believes that the Partnership's existing claims represent a large enough area to provide adequate protection from outside intervention by adverse claimants into the large potential prospect area.

### Exploratory Drilling and Assay Material

The Partnership completed an exploratory drilling program of the Project in November 2002. A grid area was established that was approximately "800 feet wide by 1,200 feet long". A total of 12 core holes were drilled down to an average depth of approximately 250 feet. Comprehensive testing was conducted internally and externally with independent outside labs on the core samples. Testing showed that gold, palladium and platinum were uniformly disseminated throughout the test area. Statistical analysis on the limited early data indicated a strong connection for the common occurrence of these metals in the mineralization. Metallurgical and petrology studies have also indicated that these metals occur as naturally occurring alloys. Core Hole Assay averages composites were tested at 50-foot intervals. Approximately 300 assays were conducted on the twelve core hole samples<sup>xxvi</sup>. All previous test work, including the work of independent assayers, confirmed the presence of platinum, gold and palladium.

## Geology

### The Portuguese Creek Claim Area

Portuguese Creek is a part of a much larger geological feature known as the Magic Reservoir Eruptive Center (Leeman 1982). The large geological feature is interpreted to be a caldera structure some 125 square miles in



surface area, which was filled by the Moonstone Rhyolite in Pliocene time (ca: 5-3 Ma). The Moonstone Rhyolite is subdivided into three units known as the lower, middle and upper Moonstone Rhyolite<sup>xxvii</sup>. The lower and middle units fill the caldera while the upper unit was poured out from points along the ring fracture which bounds the caldera. Those localities where the upper Moonstone Rhyolite occurs at outcrop in some places are marked by elongate structures thought to be volcanic vents, similar to Blackhawk, Idaho. In other locations there is a single volcanic cone from which most of the lava ensued. Petrologically the Moonstone Rhyolite is a hybrid rock, the product of mixing two dissimilar parent magmas, including one that is siliceous (rhyolitic) and the other that is basic (basaltic). The upper unit is the most basic of the three, having the mineral olivine as an essential constituent, which is absent from the lower and middle units.

### Portuguese Creek Geology

The property is situated in the southwestern corner of Lincoln County, Idaho. The area is dominated by a conical peak, which rises to a height of approximately 5,908 feet, which is about 300 feet above the neighboring ground. Approximately 2,800 feet away to the southeast is a second smaller conical hill. Both are vents from which issued the mineralized lava flows. These two small volcanoes with their lava fields lie at the headwaters of Portuguese Creek from which the project takes its name.

### Nature of Mineralization

The flow rocks are not hydrothermally altered, except for minor deuteric hematization. Because rock alteration is lacking and on the basis of other evidence, in particular a mineralogical study by Bowles (1999), as well as petrographic data (Honjo and Leeman 1987), it was tentatively concluded that the mineralization was syngenetic with its host rock. For example, the Bowles study showed that gold was present in the rock as minute films of native metal (up to 20 microns in size) attached to the surfaces of silicate minerals and found evidence for a gold, palladium, tin and aluminum mineral in grains up to 50 microns. The mode of occurrence of the gold and platinum group metals is compatible with the syngenetic hypothesis. As such, this would imply that the Olivine Rhyolite member of the Moonstone Formation to be a very attractive exploration target for gold, palladium and platinum. So far as is known, there are only two areas of outcrop where the Olivine Rhyolite is present, including Blackhawk and Portuguese Creek, Idaho. These two areas were mapped from aerial photographs and indicate that each is about two square miles. The petrology of the Moonstone fit the parameters for mantle plume activity. The release of the 1999 Bowles mineralogical report confirmed the nature of the mineralization as being derived from the earth's deep mantle. For comparative mineral occurrences, see this Norilsk Report<sup>xxviii</sup>.

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<sup>i</sup> See "[Energy Critical Elements: Securing Materials for Emerging Technologies](#)"

<sup>ii</sup> See "[Dimensions of Drill Hole and Ore Reserve Calculations](#)"

<sup>iii</sup> See "[Drill Locations on Claims Grid](#)"

<sup>iv</sup> See "[Portuguese Creek Current Claims Grid](#)"

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- <sup>v</sup> See [“August 31, 2010 BLM Receipt for Maintenance Fees for 70 Claims for 2010-2011 Assessment Year”](#)
- <sup>vi</sup> See [“Richard Daniele - Precious Metals Project Report”](#)
- <sup>vii</sup> See [“Mike Wendell - Assay Description on 44 Samples”](#)
- <sup>viii</sup> See [“Paul Gates - Metallurgical Report”](#)
- <sup>ix</sup> See [“10-Year Production Pro-Forma”](#)
- <sup>x</sup> See [“Mineral Lab Rare Earth Element Report”](#)
- <sup>xi</sup> See [“Pilot Facility Photos”](#)
- <sup>xii</sup> See [“Full Production Use of Proceeds”](#)
- <sup>xiii</sup> See [“Air, Special Use and Water Permit Letters”](#)
- <sup>xiv</sup> See [“2600 Ton Pro-forma”](#)
- <sup>xv</sup> See [“2000 Ton Haul October 2010”](#) (600 tons were already there from earlier haul in 2003)
- <sup>xvi</sup> See [“Dr. Mehrtens Feasibility Report”](#)
- <sup>xvii</sup> See [“Recovery of Precious Metals from Acidic Halogen Leach Solutions”](#)
- <sup>xviii</sup> See [http://www.dowwaterandprocess.com/products/periodic\\_table/pt\\_pt\\_pd.htm](http://www.dowwaterandprocess.com/products/periodic_table/pt_pt_pd.htm)
- <sup>xix</sup> See [“Dr. Michael B. Mehrtens CV”](#)
- <sup>xx</sup> See [“Manager Bios”](#)
- <sup>xxi</sup> See [“Paul Gates CV”](#)
- <sup>xxii</sup> See [“Board of Advisors Bios”](#)
- <sup>xxiii</sup> [Richard Daniele](#) - MetMin Services Inc. (Metallurgical Engineer)
- [Full Project Report](#) (he shadowed the internal test work and reported on the findings)
  - [Gravimetric Results](#)
  - [Element Information - Platinum](#)
- [Dr. Michael B. Mehrtens](#) - Principal (Geochemist)
- [Feasibility Study of the Portuguese Creek Mine](#) (fundamental to existence of metals found)
  - [Statistical Inference of Assay](#) (surface assay shows metal and host rock relationships)
- [Dr. Fredrick P. Schwarz](#) (Geology / Geochemistry)
- Logging Report (logged core hole samples as they were being drilled)
- [Paul A. Gates](#) - ROCI (Mining Engineer)
- [Cumulative Reports Based on Metallurgical Extractive Work Since Inception](#) (reserve estimate)

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[Carl Jensen](#) - Jensen Technologies (Chemistry / Metallurgist)

- [Bugbee Fire Assay](#) (customized fire assay specific to platinum group metals)
- [Fumed Resin Analysis](#) (post leach at Jensen Lab, metal absorption onto ion exchange resins)
- [Flame AA Analysis](#) (continuation of Arrakis Leach test - post leach analysis, carbon absorption)
- [Leach Optimization Research Report](#) (effectiveness of halide leach and ion exchange resins)
- [Torch Assay Report](#) (additional fire assay method)
- [Torch Assay Procedures](#) (simply describes the test procedure)

[Dr. Vern McMahon](#) - Auro-Research Labs

- [Report on the Success of the PMART Assay System](#) (comments on value of customized assay)

Greg Iseman - Iseman Consulting

- [Report Using Different Assay Techniques](#) (independent report on core holes, five methods used)
- [Calculation of Rhodium](#) (pro-forma using core hole assay from Iseman)
- [Sample 1 - Resin Leach Analysis](#) (independent leach test using DOW and competitor resin)
- [Sample 2 - Resin Leach Analysis](#) (independent leach test using DOW and competitor resin)
- [Sample 3 - Resin Leach Analysis](#) (independent leach test using DOW and competitor resin)
- [Sample 5 - Resin Leach Analysis](#) (independent leach test using DOW and competitor resin)

Richard Kunter - Arrakis, Inc.

- [Column Carbon Adsorption Tests on Leach Solutions](#) (early metal recovery tests using carbon)
- [Lab Report](#) (solution assays regarding column leach test above)

Dr. Daryl Freter - Primary Gold

- [Leach Assay Results from Resin Collection](#) (independent leach test - DOW and competitor resin)
- [Analytical Laboratory Report](#) (independent leach test using DOW and competitor resin)

Mike Wendell - ROCI

- [Assay Report 1](#) (early assays on surface samples, description of assay method and results)
- [Leach Test 9](#)
- [Leach Test 11](#)
- [Core Result Averages](#) (internal analysis)
- [PMART - Development of Precious Metals Advanced Reaction Technology](#)

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- [A Study of Iron Interference in Precious Metals AA Spectrometry](#) (reducing iron interference)

Sandra Perry (Geologist)

- [Geologic Map of the Magic Reservoir Eruptive Center](#) (independent view of lava flows)

Peggy Dalheim - The Mineral Lab

- [XRF Results - 2004](#) (shows mineralogy, non-precious metal content)
- [XRF Results - 2010](#) (shows that a significant amount of Rare Earth Elements exist in ore)

Matt Rogers - Larkin Lab (Dow Resin Testing)

- [Dow Resin Testing of 1.5 Ton Leached - May 15 through June 24, 2009](#) (2009 pilot results)

Dr. Sarah Appleby - Colorado School of Mines

- [QEMSCAN Analysis of the Portuguese Creek PGM Deposit](#) (geo-chemistry of host rock)

James Dascalos - Portuguese Creek Management

- [Equipment Inventory](#) (current inventory owned and physically located at facility in Idaho)
- [Building Loan](#) (current loan balance for plant in Idaho - Guaranty Bank and Trust)
- [Line of Credit](#) (current line of credit balance - Guaranty Bank and Trust)
- [Balance Sheet](#) (ending December 31, 2010)
- [Debt Schedule](#) (ending December 31, 2010)
- [State of Colorado - Certificate of Good Standing](#)
- [2010 Tax Return - Portuguese Creek Partners](#)
- [2010 Tax Return - Portuguese Creek Management](#)

<sup>xxiv</sup> See [National Geographic Mantle Plume Graphic](#) for the history of volcanic activity along the Snake River.

<sup>xxv</sup> See [Surface Sample Assay](#)

<sup>xxvi</sup> See [Core Result Averages](#)

<sup>xxvii</sup> See [Dr. Mehrtens Diagram of Lava Flows](#)

<sup>xxviii</sup> See [Norilsk Report](#)